

ARKIV FÖR KEMI

UTGIVET AV

KUNGL. SVENSKA VETENSKAPS-
AKADEMIEN

Band 17

Med 59 avhandlingar



ALMQVIST & WIKSELL

STOCKHOLM

GÖTEBORG · UPPSALA

1961

Häfte 1 innehållande Nr 1- 9 utkom den 7 febr. 1961

» 2	»	» 10-15	»	»	2 juni 1961
» 3	»	» 16-25	»	»	5 juni 1961
» 4	»	» 26-37	»	»	9 juni 1961
» 5	»	» 38-47	»	»	12 juni 1961
» 6	»	» 48-59	»	»	16 okt. 1961

SJUTTONDE BANDETS INNEHÅLL

Sid.

1. HOFFMAN, R. A., Proton magnetic resonance studies of unsaturated and aromatic compounds with particular regard to effects of electron delocalization	1- 23
2. ROSENBERG, A., Studies on carnosinase. III. Metal-ion stabilization of the enzyme	25- 40
3. ROSENBERG, A., Studies on carnosinase. IV. The interaction of the activating metal ions with the substrate	41- 50
4. SKÖLD, O., Inhibition of uracil-utilizing enzymes by 5-fluorouracil and 5-fluorouracil nucleosides	51- 57
5. SKÖLD, O., Nucleoside and nucleotide derivatives of 5-fluorouracil. Formation with enzymes from Ehrlich ascites tumor	59- 71
6. GRONOWITZ, S. and HÅKANSSON, R., On the reaction of thiocyanates with organolithium and organomagnesium compounds	73- 82
7. WAHLBERG, E., N-acylierte Pyrazolone	83- 88
8. GRONOWITZ, S. and KARLSSON H.-O., New syntheses of 2,2'- and 3,3'-bithienyl	89- 92
9. GRONOWITZ, S. and EKMAN, R., Synthetic estrogenic isoflavonoids. I. The synthesis of 3-(2'-thienyl)-5,7-dihydroxychromone	93- 99
10. WESTERMARK, T., Some measurements on energy loss of 2.8 MeV electrons in light elements and chemical compounds	101-138
11. WESTERMARK, T. and GRAPENGIESSER, B., Observations of light emitted upon dissolution in luminescent liquids of irradiated NaCl, LiF, KI and some organic solids	139-149
12. WESTERMARK, T., BIESERT, N. and GRAPENGIESSER, B., Observations by means of radiation chemical dosimeter liquid systems of irradiation effects in solid sodium chloride and some organic solids	151-164
13. GRONOWITZ, S., MOSES, P., HÖRNFELDT, A.-B. and HÅKANSSON, R., Substituent interactions in thiophenes. I. Preparation of disubstituted thiophenes	165-177
14. NILSSON, A., GRONOWITZ, S. and EKMAN, R., Synthetic estrogenic isoflavonoids. II. The synthesis of C ₄ ¹⁴ -labelled biochanin A	179-182
15. LUNDQUIST, M., On the formation of racemic compounds in monomolecular films on water. I. 2-Hydroxyalkanes and certain derivatives	183-195
16. ALBERTSSON, P. Å. and NYNS, ED. J., Partition of proteins in an aqueous phase system of dextran and polyethylene glycol. Influence of the electrolyte content	197-206
17. VON EULER, H., Anti-Ergone und Abwehr-Enzyme	207-211
18. MYRBÄCK, K., Studies on yeast invertase. XI. Inhibition by organic bases. 1. Aniline	213-226
19. MYRBÄCK, K. and WILLSTAEDT, E., Studies on yeast invertase. XII. Inhibition by organic bases. 2. Some heterocyclic bases	227-235
20. GRONOWITZ, S., MOSES, P. and HÖRNFELDT, A.-B., Proton magnetic resonance of thiophenes. IX. Preparation of substituted thiophenethiols	237-247
21. PETTERSSON, R. and VÄNNGÅRD, T., Electron spin resonance of Cu(II) and Ag(II) dithiocarbamates	249-259

22.	SENNING, A. und LAWESSON, S.-O., Beiträge zur Chemie α -substituierter Sulfide. III. Über in 3-Stellung aromatisch substituierte 4-Thiaisochroman-1-one	261-264
23.	FREDGA, A., WEIDLER, A.-M. and GRÖNWALL, C., Studies on synthetic growth substances. XIII. Optically active 2- and 3-chlorophenoxypropionic acids and their absolute configuration	265-272
24.	ZDANSKY, G., A convenient synthesis of inactive selenocystine	273-279
25.	JANSSON, G., Induction of water-sensitivity in barley by treatment with water	281-289
26.	MELANDER, L., Acid-induced aromatic hydrogen exchange. V. Discussion of reaction mechanism	291-304
27.	NILSSON, A., On the <i>in vitro</i> metabolism of the plant estrogen biochanin A in rumen fluid	305-310
28.	VINK, H., Diffusion in porous media	311-317
29.	SANDBERG, R., The kinetics of the hydrolytic fission of the γ -lactone ring of terpenylic acid	319-326
30.	SANDBERG, R., On the resolution and the racemization of 4-methyl- Δ^3 -cyclohexenecarboxylic acid	327-332
31.	VON EULER, H. und HASSELQUIST, H., Elektrophoretische Versuche an einem γ -Globulin-Präparat sowie an Seren normaler, sarkomtragender und sarkom-immuner Ratten	333-338
32.	WESTERMARK, T. and LINDROTH, H., An approach to the study of the chemical reactions of thermal gaseous ions with liquids and some notes on their possible biological effects	339-354
33.	CLAESSON, S. and WETTERMARK, G., Photochemical depolymerization of cellulose nitrate in solution	355-361
34.	DANIELSSON, H., On the metabolism of 7α -hydroxycholesterol in mouse liver homogenates. Bile acids and steroids 111	363-372
35.	DANIELSSON, H., Formation and metabolism of 26 -hydroxycholesterol. Bile acids and steroids 112	373-379
36.	DANIELSSON, H., Synthesis and metabolism of Δ^5 -cholestene-3 β , 12 α -diol. Bile acids and steroids 113	381-385
37.	SENNING, A. und LAWESSON, S.-O., Beiträge zur Chemie α -substituierter Sulfide. IV. Über in 3-Stellung aliphatisch substituierte 4-Thiaisochroman-1-one	387-391
38.	LAWESSON, S.-O. and FRISELL, C., Studies on peroxy compounds. XII. Preparation and dealkylation of <i>t</i> -butyl aryl ethers	393-400
39.	FRISELL, C. and LAWESSON, S.-O., Studies on elimination. I. The formation of olefins by decomposition of β -ketoesters	401-408
40.	LAWESSON, S.-O. and FRISELL, C., Studies on peroxy compounds. XIII. The introduction of the benzoyloxy group into cyanoacetates	409-419
41.	LAWESSON, S.-O. and BUSCH, T., Studies on peroxy compounds. XIV. The reaction of benzaldehyde dialkylacetals with free radicals	421-427
42.	LAWESSON, S.-O., ANDERSSON, M. and (in part) BERGLUND, C., Studies on peroxy compounds. XV. The introduction of the <i>t</i> -butoxy and benzoyloxy groups into β -ketoesters. A method for the preparation of α -hydroxyesters	429-439
43.	LAWESSON, S.-O., JÖNSSON, P.-G. and TAIPALE, J., Studies on peroxy compounds. XVI. The preparation of benzoyloxy derivatives of β -diketones	441-456

44. LAWESSON, S.-O., GRÖNWALL, S. and (in part) ANDERSSON, M., Studies on peroxy compounds. XVII. The preparation of acyloins from *t*-butyl acetoacetate 457-463
45. LAWESSON, S.-O. and BERGLUND, C., Studies on peroxy compounds. XVIII. The preparation of aldehydes and ketones from ethers 465-473
46. LAWESSON, S.-O. and BERGLUND, C., Studies on peroxy compounds. XIX. The reaction between *t*-butyl perbenzoate and tetrahydrofuran or tetrahydropyran in the presence of alcohols 475-484
47. LAWESSON, S.-O. and BERGLUND, C., Studies on peroxy compounds. XX. The cuprous chloride catalyzed decomposition of *t*-butyl perbenzoate in alcohols 485-488
48. SENNING, A. und LAWESSON, S.-O., Beiträge zur Chemie α -substituierter Sulfide. V. Über in 3-Stellung substituierte 4-Thiaisochroman-1-one . . 489-495
49. VON EULER, H., HASSELQUIST, H. und LARSEN, A., Gamma-Globuline als Wirkstoff-Komponenten im normalen und im cancerösen Blutplasma . 497-501
50. BERGSTRÖM, K. and WALLÉN, P., Removal of contaminating plasminogen from purified bovine fibrinogen 503-511
51. VON EULER, H., HASSELQUIST, H. und LARSEN, A., Spaltungen der Nukleinsäuren in saurer Lösung 513-518
52. ZDANSKY, G., 1,9-Diamino-3,5,7-trithianonane-1,9-dicarboxylic acid and 1,9-diamino-3,7-diselena-5-thianonane-1,9-dicarboxylic acid 519-522
53. FORSÉN, S. and NILSSON, M., Spectroscopic studies on enols. Part III. Dehydroacetic acid 523-528
54. OLSSON, K. and GRÖNWALL, C., On octa-(arylsilsesquioxanes), $(\text{ArSi})_8\text{O}_{12}$. I. The phenyl, 4-tolyl, and 1-naphthyl compounds 529-540
55. GUSTAVSON, K. H., Some reactions of succinylated collagen 541-550
56. HEDBOM, A., A native cobalamin-polypeptide complex from liver: investigations on the corrinoid part 551-560
57. GRONOWITZ, S. and RAZNIKIEWICZ, T., On the synthesis of the isomeric α -methoxythienylacetic acids 561-568
58. BERGSON, G. and NORDSTRÖM, G., Some experiments with aliphatic selenenylbromides and thioiselenenates 569-577
59. CLAESSENS, S., PALM, G. and WETTERMARK, G., Sensitized photochemical depolymerization of cellulose nitrate in solution 579-582

